

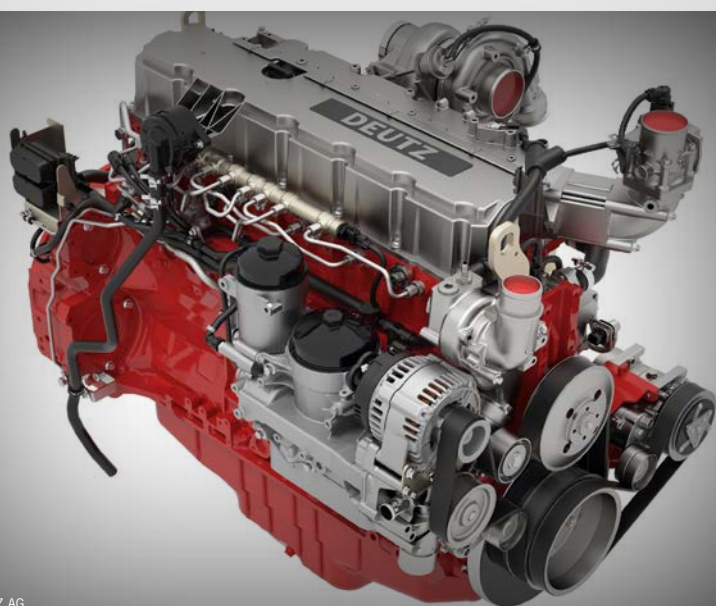
## Heavy-Duty, On- and Off-Highway Engines

Future Challenges

13th International MTZ Conference on Heavy-Duty Engines  
6 and 7 November 2018 | Cologne | Germany



Impressions of the 2017 conference



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**NEW DIESEL, GAS, AND DUAL-FUEL ENGINES**  
Heavy-duty engines of all power segments

**ALTERNATIVE DRIVE SYSTEMS**  
Electric and hybrid drive systems for commercial vehicles and mobile machines

**EMISSIONS**  
Fuels and exhaust aftertreatment

/// SCIENTIFIC DIRECTOR **Prof. Dr. Peter Eilts**, TU Braunschweig

/// FACTORY TOUR **DEUTZ AG**

# Heavy-Duty, On- and Off-Highway Engines

## WELCOME

The MTZ Conference on “Heavy-Duty, On- and Off-Highway Engines” has become established as the prime forum for the exchange of information and experience between the developers and designers of engines for the commercial vehicle and mobile machine sectors and for maritime and stationary applications. It offers a unique pan-European industry-wide transfer of expertise between the various heavy-duty engine segments and their applications. This two-day event will take place for the 13th time on 6 and 7 November 2018, this time in Cologne. At the end of the first day, the conference will also include a guided tour of the DEUTZ AG plant.

In order to ensure that engine experts will continue to benefit from an informative and forward-looking conference in the future, the Scientific Advisory Board has decided, after intensive discussions, to optimize the conference in a number of aspects. The aim was to generate added value for those attending. At the same time, particular care was taken to avoid changing the successful character of the conference. For example, parallel sessions are being offered for the first time this year, thus allowing time for more papers and new subject areas to be included in the two days. Furthermore, a panel discussion with high-caliber speakers on the key issue of hybridization is also planned.

On behalf of the Scientific Advisory Board, I would like to cordially invite you to present the latest research and development findings from your company or institute. Further details on submitting your paper can be found below in this Call for Papers. I look forward to your participation in the conference.

On behalf of the Scientific Advisory Board

Wolfgang Siebenpfeiffer  
Editor-in-Charge ATZ | MTZ | ATZelektronik

## PARTICIPANTS

The MTZ Conference “Heavy-Duty, On- and Off-Highway Engines” is aimed worldwide at experts from engine and vehicle manufacturers in the fields of commercial vehicles, off-highway and marine applications, stationary engines, suppliers and development partners, teaching staff and research assistants from universities, representatives of authorities and associations, and engineers active in these fields.



**Detlev Baudach**  
Federal-Mogul  
Corporation



**Rolf Brück**  
Continental  
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**Bernd Danckert**  
Danckert Consulting



**Prof. Dr. Peter Eilts**  
TU Braunschweig  
Scientific Director  
of the Conference



**Rudolf Ellensohn**  
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Exhaust Technology  
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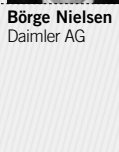
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L'Orange GmbH



**Dr. Andreas Pfeifer**  
MAHLE GmbH



**Manfred Pister**  
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**Dr. Hans-Josef  
Schiffgens**



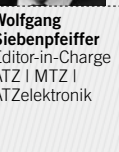
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MAN Truck & Bus AG



**Dr. Martin Teigeler**  
Rolls-Royce  
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**Dr. Ioannis Vlasos**  
Ricardo  
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**Wolfgang  
Siebenpfeiffer**  
Editor-in-Charge  
ATZ | MTZ |  
ATZelektronik



**Prof. Dr. Georg  
Wachtmeister**  
TU Munich



**Dr. Wolfgang Warnecke**  
Shell Global Solutions  
(Deutschland) GmbH



## MAIN SUBJECT AREAS

### **New diesel, gas, and dual-fuel engines for commercial vehicles, mobile machines, rail vehicles, ships, and stationary applications**

- New engines and components for heavy-duty engines of all power segments
- Trends in engine development

### **Emissions control**

- Legal conditions
- Exhaust aftertreatment
- In-cylinder optimization

### **Alternative fuels**

- Liquid fuels
- Gaseous fuels
- E-fuels

### **Electrification and hybridization**

- From 48 V to high-voltage technology
- Light and heavy commercial vehicles
- Mobile machines

### **Combustion processes**

- Mixture formation and combustion
- Efficiency optimization, waste heat utilization
- Measuring and analysis systems, simulation

### **Supercharging, fuel injection, and gas injection**

- Supercharging systems
- Fuel injection systems
- Gas injection systems

### **Engine and system optimization**

- Mechanical optimization, friction reduction
- Engine management
- Development and simulation methods

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For information on the various presentation options, please contact:  
Elke van Lon  
Phone +49 611 7878-320  
elke.vanlon@springer.com

## CALL FOR PAPERS

### **Are you interested in presenting a paper on one of these subjects?**

If so, please send a short version of your proposed paper to:

Michaela Kues | ATZlive  
Abraham-Lincoln-Straße 46 | 65189 Wiesbaden | Germany  
Phone +49 611 7878-274 | Fax +49 611 7878-452  
michaela.kues@springer.com

### **Your submission proposal should contain:**

- The title of the paper in English
- The name of the speaker and any co-authors with job title, company address in English, telephone number, and e-mail address
- Main points of the paper's contents and a short abstract in English
- Classification under one of the main subject areas in English
- Brief indication of the innovative value of the work in English  
(Please submit documents in PDF or Microsoft Word format)

The Scientific Advisory Board for the conference will decide whether to accept each paper on the basis of the short version.

### **Information on the Conference**

The time allowed for presentation is 20 minutes with a subsequent discussion. The registration fee will be waived for one speaker per paper presented. The language of the manuscripts and slides is English.

### **Schedule**

Deadline for submission proposals: **30 April 2018**

Notification of the authors: **22 June 2018**

Submission of final manuscripts: **28 September 2018**

The final conference program will be published in August 2018.

**DEADLINE FOR SUBMISSION PROPOSALS**

**30 APRIL 2018**